

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2005/001322

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C30B25/02 C30B29/52 C30B23/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C30B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, COMPENDEX, INSPEC, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	NOUHI A ET AL: "MOLECULAR BEAM EPITAXY AND METALORGANIC CHEMICAL VAPOR DEPOSITION GROWTH OF EPITAXIAL CDTE ON (100) GAAS/SI AND (111) GAAS/SI SUBSTRATES" APPLIED PHYSICS LETTERS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 52, no. 24, 13 June 1988 (1988-06-13), pages 2028-2030, XP000020280 ISSN: 0003-6951	1-6,9, 23-27,29
Y	page 2028, column 2, line 28 - page 2029, column 1, line 28 ----- -/--	28

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the International search

17 August 2005

Date of mailing of the International search report

25/08/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Lavéant, P

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2005/001322

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JOHNSON S M ET AL: "DIRECT GROWTH OF CDZNT/SE SUBSTRATES FOR LARGE-AREA HgCdTe INFRARED FOCAL PLANE ARRAYS" JOURNAL OF ELECTRONIC MATERIALS, WARRENDALE, PA, US, vol. 24, no. 5, 1 May 1995 (1995-05-01), pages 467-473, XP000571373	31-36
Y	page 468, column 2, line 20 - page 469, column 2, line 2; figures 5,9 page 470, column 2, line 25 - page 472, column 1, line 17	7,8, 10-22, 30,37
Y	US 4 650 539 A (IRVINE ET AL) 17 March 1987 (1987-03-17) cited in the application the whole document	7,8, 10-12, 14-22, 28,30,37
Y	US 4 566 918 A (IRVINE ET AL) 28 January 1986 (1986-01-28) cited in the application column 3, line 45 - column 6, line 29; claims 1,8-11; figure 2	13,14
P,X	HALL D J ET AL: "HIGH-PERFORMANCE LONG-WAVELENGTH HgCdTe INFRARED DETECTORS GROWN ON SILICON SUBSTRATES" APPLIED PHYSICS LETTERS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 85, no. 11, 13 September 2004 (2004-09-13), pages 2113-2115, XP001226600 ISSN: 0003-6951 the whole document	1-37
A	EP 0 619 615 A (HE HOLDINGS, INC; HUGHES AIRCRAFT CO) 12 October 1994 (1994-10-12) column 3, line 32 - column 7, line 6; claims 1-9; figures 1,2	1-3, 7-12,23, 25,27, 29,30,37

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2005/001322

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4650539	A	17-03-1987	CA 1192475 A1	27-08-1985
			DE 3168017 D1	14-02-1985
			EP 0040939 A1	02-12-1981
			GB 2078695 A ,B	13-01-1982
			IL 62937 A	31-01-1985
			JP 1684182 C	31-07-1992
			JP 3050834 B	02-08-1991
			JP 57071190 A	01-05-1982
US 4566918	A	28-01-1986	CA 1229290 A1	17-11-1987
			DE 3466898 D1	26-11-1987
			EP 0135344 A1	27-03-1985
			GB 2146663 A ,B	24-04-1985
			IL 72790 A	31-01-1988
			JP 1931621 C	12-05-1995
			JP 6050744 B	29-06-1994
			JP 60077431 A	02-05-1985
EP 0619615	A	12-10-1994	US 5306386 A	26-04-1994
			EP 0619615 A2	12-10-1994
			IL 109194 A	16-10-1996
			JP 7006951 A	10-01-1995
			US 5399206 A	21-03-1995